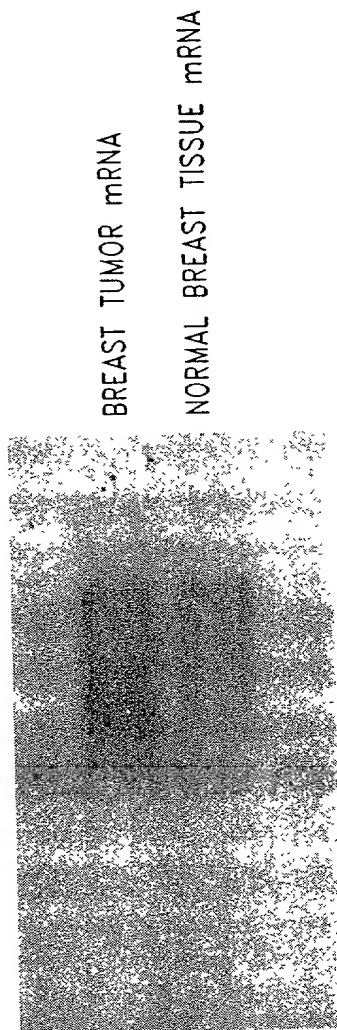
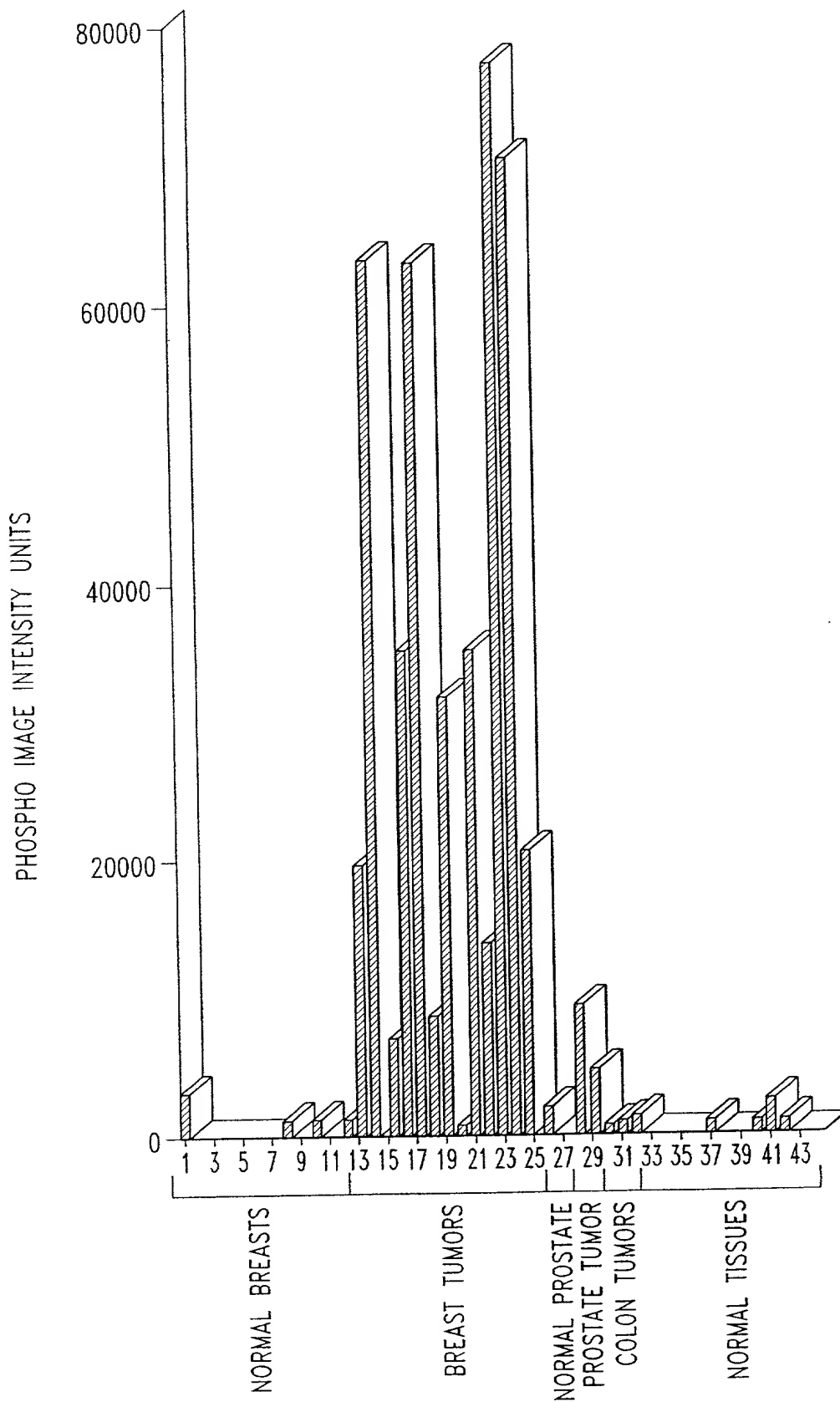


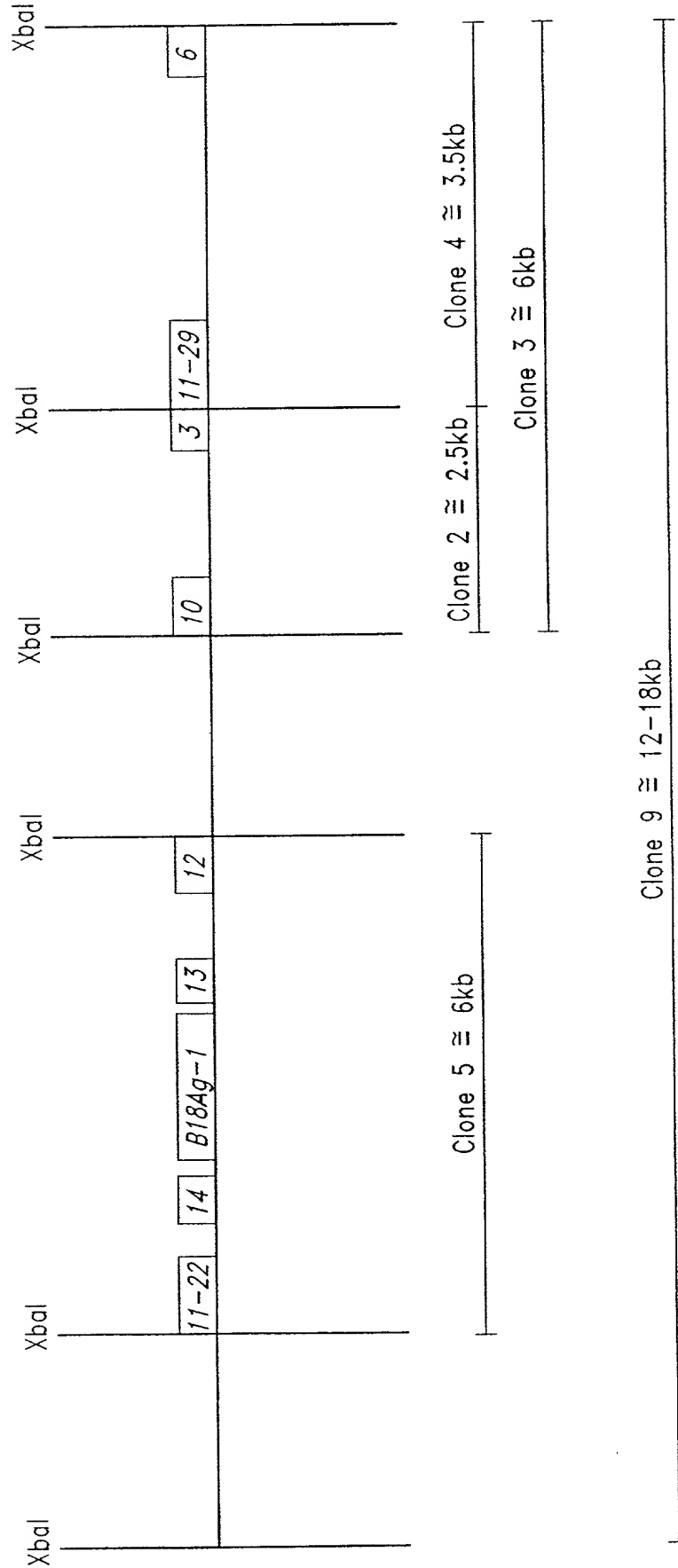
*Fig. 1*



*Fig. 2*

*Fig. 3*

GENOMIC CLONE MAP



*Fig. 4*

Inventors: Tony N. Frudakis et al. Serial No. Not yet assigned Docket No.: 21021.419C12

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B18Ag1

TTA GAG ACC CAA TTG GGA CCT AAT TGG GAC CCA AAT TTC TCA AGT GGA 48  
 Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly  
 1 5 10 15

GGG AGA ACT TTT GAC GAT TTC CAC CGG TAT CTC CTC GTG GGT ATT CAG 96  
 Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln  
 20 25 30

GGA GCT GCC CAG AAA CCT ATA AAC TTG TCT AAG GCG ATT GAA GTC GTC 144  
 Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val  
 35 40 45

CAG GGG CAT GAT GAG TCA CCA GGA GTG TTT TTA GAG CAC CTC CAG GAG 192  
 Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu  
 50 55 60

GCT TAT CGG ATT TAC ACC CCT TTT GAC CTG GCA GCC CCC GAA AAT AGC 240  
 Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser  
 65 70 75 80

CAT GCT CTT AAT TTG GCA TTT GTG GCT CAG GCA GCC CCA GAT AGT AAA 288  
 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys  
 85 90 95

AGG AAA CTC CAA AAA CTA GAG GGA TTT TGC TGG AAT GAA TAC CAG TCA 336  
 Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser  
 100 105 110

GCT TTT AGA GAT AGC CTA AAA GGT TTT 363  
 Ala Phe Arg Asp Ser Leu Lys Gly Phe  
 115 120

*Fig. 6*NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B17Ag1

GC TGGGCACAGT GGCTCATACC TGTAATCCTG ACCGTTTCAG AGGCTCAGGT 60

CG CTTGAGCCCA AGATTTCAAG ACTAGTCTGG GTAACATAGT GAGACCCTAT 120

AA AAATAAAAAA ATGAGCCTGG TGTAGTGGCA CACACCAGCT GAGGAGGGAG 180

CT AGGAGA 196

*Fig. 7*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B17Ag2

GC TTGGGGGCTC TGACTAGAAA TTCAAGGAAC CTGGGATTCA AGTCCAAC TG 60  
AC TTACACTGTG GNETCCAATA AACTGCTTCT TTCCTATTCC CTCTCTATTA 120  
AA GGAAAACGAT GTCTGTGTAT AGCCAAGTCA GNTATCCTAA AAGGAGATAC 180  
AT TAAATATCAG AATGTAAAAC CTGGGAACCA GGTTCACAGC CTGGGATTAA 240  
CA AGAAGACTGA ACAGTACTAC TGTGAAAAGC CCGAAGNGGC AATATGTTCA 300  
TT GAAGGATGGC TGGGAGAATG AATGCTCTGT CCCCAGTCC CAAGCTCACT 360  
CT CCTTTATAGC CTAGGAGA 388

*Fig. 8*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B13Ag2a

GC CTATAATCAT GTTTCTCATT ATTTTCACAT TTTATTAACC AATTCTGTG 60  
AA AATATGAGGG AAATATATGA AACAGGGAGG CAATGTTTCA ATAATTGATC 120  
TG ATTTCTACAT CAGATGCTCT TTCCTTCCT GTTTATTTCC TTTTATTTT 180  
GG TCGAATGTAA TAGCTTTGTT TCAAGAGAGA GTTTTGGCAG TTTCTGTAGC 240  
CT GCTCATGTCT CCAGGCATCT ATTTGCACTT TAGGAGGTGT CGTGGGAGAC 300  
CT ATTTTTTCCA TATTTGGGCA ACTACTA 337

*Fig. 9*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B13Ag1b

GC CATACAGTGC CTTTCCATTT ATTTAACCCC CACCTGAACG GCATAAACTG 60

GC TGGTGTTTTT TACTGTAAAC AATAAGGAGA CTTTGCTCTT CATTTAAACC 120

AT TTCATATTTT ACGCTCGAGG GTTTTTACCG GTTCCTTTTT ACACTCCTTA 180

TT TAAGTCGTTT GGAACAAGAT ATTTTTCTT TCCTGGCAGC TTTTAACATT 240

TT TGTGCTGGG GGAAGTCTGG TCACTGTTT TCACAGTTGC AAATCAAGGC 300

CC AAGAAAAAAA AATTTTTTTG TTTTATTTGA AACTGGACCG GATAAACGGT 360

CG GCTGCTGTAT ATAGTTTTAA ATGGTTTATT GCACCTCCTT AAGTTGCACT 420

GG GGGGNTTTTG NATAGAAAGT NTTTANTCAC ANAGTCACAG GGACTTTTNT 480

NA CTGAGCTAAA AAGGGCTGNT TTTCGGGTGG GGGCAGATGA AGGCTCACAG 540

TC TCTTAGAGGG GGGAACTNCT A 571

*Fig. 10*





NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B11Ag1

TG CACATGCAGA ATATTCTATC GGTACTTCAG CTATTACTCA TTTTGATGGC 60

AG CCTATCCTCA AGATGAGTAT TTAGAAAGAA TTGATTTAGC GATAGACCAA 120

GC ACTCTGACTA CACGAAATTG TTCAGATGTG ATGGATTTAT GACAGTTGAT 180

GA GATTATTAAG TGATTATTTT AAAGGGAATC CATTAATTCC AGAATATCTT 240

TC AAGATGATAT AGAAATAGAA CAGAAAGAGA CTACAAATGA AGATGTATCA 300

TA TTGAAGAGCC TATAGTAGAA AATGAATTAG CTGCATTTAT TAGCETTACA 360

TT TTCCTGATGA ATCTTATATT CAGCCATCGA CATAGCATTG CCTGATGGGC 420

GA ATAATAGAAA CTGGGTGCGG GGCTATTGAT GAATTCATCC NCAGTAAATT 480

AC AAAATATAAC TCGATTGCAT TTGGATGATG GAATACTAAA TCTGGCAAAA 540

GG AGCTACTAGT AACCTCTCTT TTTGAGATGC AAAATTTTCT TTTAGGGTTT 600

CT ACTTTACGGA TATTGGAGCA TAACGGGA 638

*Fig. 12*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA3c

ACTGATGGAT GTCGCCGGAG GCGAGGGGCC TTATCTGATG CTCGGCTGCC TGTTCTGAT 60  
GTGCGCGGCG ATTGGGCTGT TTATCTCAAA CACCGCCACG GCGGTGCTGA TGGCGCCTAT 120  
TGCCTTAGCG GCGGCGAAGT CAATGGGCGT CTCACCCTAT CCTTTTGCCA TGGTGGTGGC 180  
GATGGCGGCT TCGGCGGCGT TTATGACCCC GGTCTCCTCG CCGGTTAACA CCCTGGTGCT 240  
TGGCCCTGGC AAGTACTCAT TTAGCGATTT TGTCAAATA GGCCTG 286

*Fig. 13*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B9CG1

AG CAGCCCCCTC TTCTCAATTT CATCTGTCAC TACCTGGTG TAGTATCTCA 60  
CA TTTTATAGC CTCCTCCCTG GTCTGTCTTT TGATTTTCCT GCCTGTAATC 120  
AC ATAAGTCAA GTAAACATTT CTAAAGTGTG GTTATGCTCA TGCACTCCT 180  
AA ATAGTTTCCA TTACCGTCTT AATAAAATTC GGATTGTTC TTTNCTATTN 240  
CA CCTATGACCG AA 262

*Fig. 14*

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B9CG3

AG CAAAGCCAGT GGT TTGAGCT CTCTACTGTG TAAACTCCTA AACCAAGGCC 60

TA AATGGTGGCA GGATTTTAT TATAAACATG TACCCATGCA AATTTCTAT 120

GA TATATTCTTC TACATTTAAA CAATAAAAAT AATCTATTTT TAAAAGCCTA 180

AG TTAGGTAAGA GTGTTTAATG AGAGGGTATA AGGTATAAAT CACCAGTCAA 240

TG CCTATGACCG A 261

*Fig. 15*

**Abstract** The purpose of this study was to determine the effect of a 12-week training program on the physical fitness of 10-year-old children. The study was conducted in a primary school in the city of Ankara, Turkey. The study group consisted of 20 children (10 boys and 10 girls) who were randomly selected from the 10-year-old children in the school. The children were divided into two groups: a control group and an experimental group. The control group did not participate in any physical activity during the 12-week period, while the experimental group participated in a 12-week training program. The training program consisted of three sessions per week, each lasting 30 minutes. The sessions included aerobic exercises, strength training, and flexibility exercises. The physical fitness of the children was measured at the beginning and at the end of the 12-week period. The measurements included heart rate, blood pressure, and body mass index (BMI). The results of the study showed that the experimental group had significantly higher heart rates and blood pressures at the end of the 12-week period compared to the control group. Additionally, the experimental group had a significantly lower BMI at the end of the 12-week period compared to the control group. These findings suggest that a 12-week training program can improve the physical fitness of 10-year-old children.

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B2CA2

CGACGTCGGT AAAATCGGAC ATGAAGCCAC CGCTGGTCTT TTCGTCCGAG CGATAGGCGC 60  
CGGCCAGCCA GCGGAACGGT TGCCCGGATG GCGAAGCGAG CCGGAGTTCT TCGGACTGAG 120  
TATGAATCTT GTTGTGAAAA TACTCGCCGC CTCGTTCGA CGACGTCGCG TCGAAATCTT 180  
CGAACTCCTT ACGATCGAAG TCTTCGTGGG CGACGATCGC GGTCAGTTCC GCCCCACCGA 240  
AATCATGGTT GAGCCGGATG CTGCCCCCGA AGCCCT 276

Fig. 16

09524400-000701

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA1

CCCAGGTCAA CCAGGCTGCA ACACGCAGGT CTTGGATTG GGCACGAAGC AGCGCTTCGC	60
TGTTTTCCAG GATTTTCAAC CAGTCGGTCT GGCCGTTCTC ATGGAGCGAG AGCGCCTTGC	120
CCAGCTCATT TTCCAGCGCC TCGTATTCGC TGGAAAAACG CACATCCTCA CCCGCAAAGA	180
CATCCTTTGA AATCGGCTGT TCCGCGAGTT CCAGATANTG CGAGGAGAGC TTGCTCGAAT	240
AGGTCATCCT AACCCCTTCAA TGCACACCAT GTGCGCCAAT GAATATCTTA ACAATTCAAC	300
TAGTTGGCAT AANAACCGAA CGAAAATCCC AATAGTCTGA AGAGCTCTTT TG	352

Fig. 17

T04080-0047350

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA2

CTGCATGTCC ACGGCCTGGA TTTACGGGTG GTCGGCGTTC ACCCCTGGCA GCTGGCGCTC	60
TTCCCGACCA GGCCCAGCAG GATGTGTGGG GCAAGGATAA CGGCGTGCGC ATCGCCTCGA	120
CCTATATGCC TACTGGCAAG GCCGAGCCCG TGAAGGCGG ATTCAGGTTC ANCGGTCGCT	180
GGAGCTTTTC CACCGGCTCC ATGCATTGTG ACTGGCTGTT TCTAGGCGGT CTGTTGCCCA	240
AGCGTGATGG TACGTCTGGC CTGGAGCATG TGACTTTCTG	280

Fig. 18

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B3CA3

AG GGAGCAAGGA GAAGGCATGG AGAGGCTCAN GCTGGTCCTG GCCTACGACT 60

CT GTCGCCGGGG ATGGTGGAGA ACTGAAGCGG GACCTCCTCG AGGTCTCTCG 120

TC NCCGTCCAGG AGGAGGGTCT TCCGTGGTC TNGGAGGAGC GGGGGGAGAA 180

TC ATGGTCNACA TCCC

204

*Fig. 19*

T02000-004250



NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE  
BREAST-TUMOR SPECIFIC cDNA B4CA1

TC AGGAGCGGGT AGAGTGGCAC CATTGAGGGG ATATTCAAAA ATATTATTTT 60

TG ATAGTTGCTG AGTTTTTCTT TGACCCATGA GTTATATTGG AGTTTATTTT 120

CC AATCGCATGG ACATGTTAGA CTTATTTTCT GTTAATGATT NCTATTTTTA 180

GA TTTGAGAAAT TGGTTNTTAT TATATCAATT TTTGGTATTT GTTGAGTTTG 240

GC TTAGTATGTG ACCA

264

*Fig. 20*

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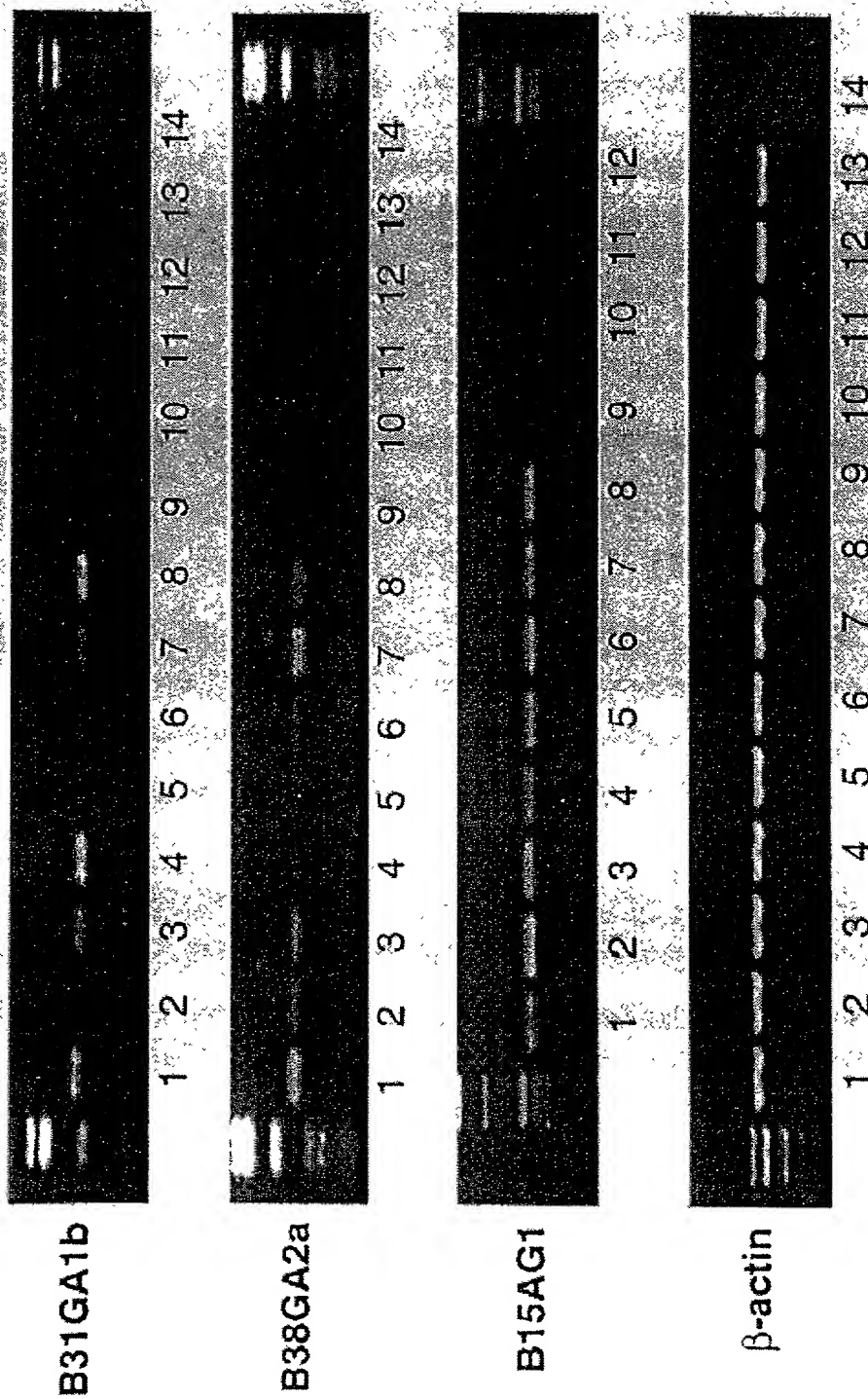


Fig. 21A

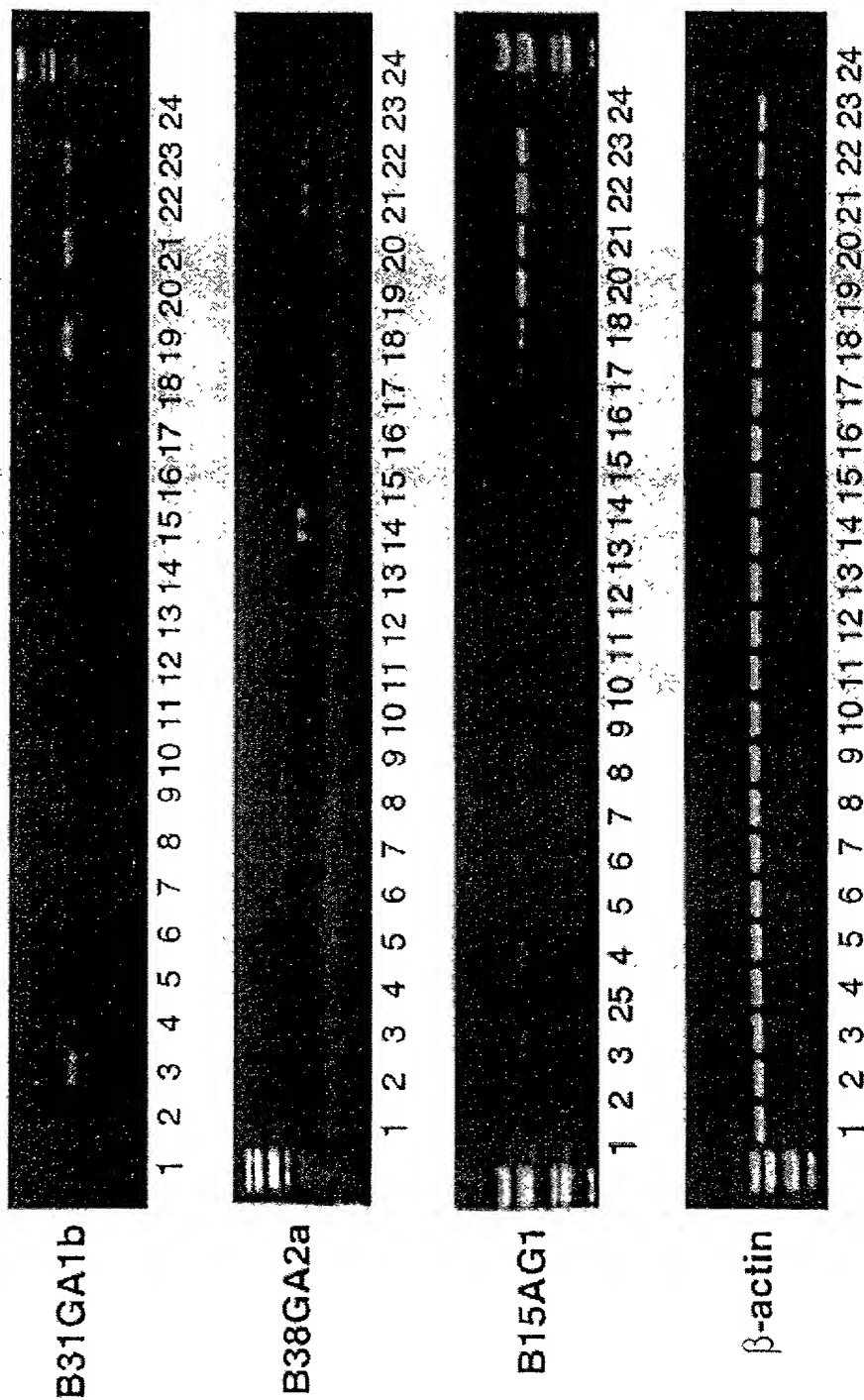
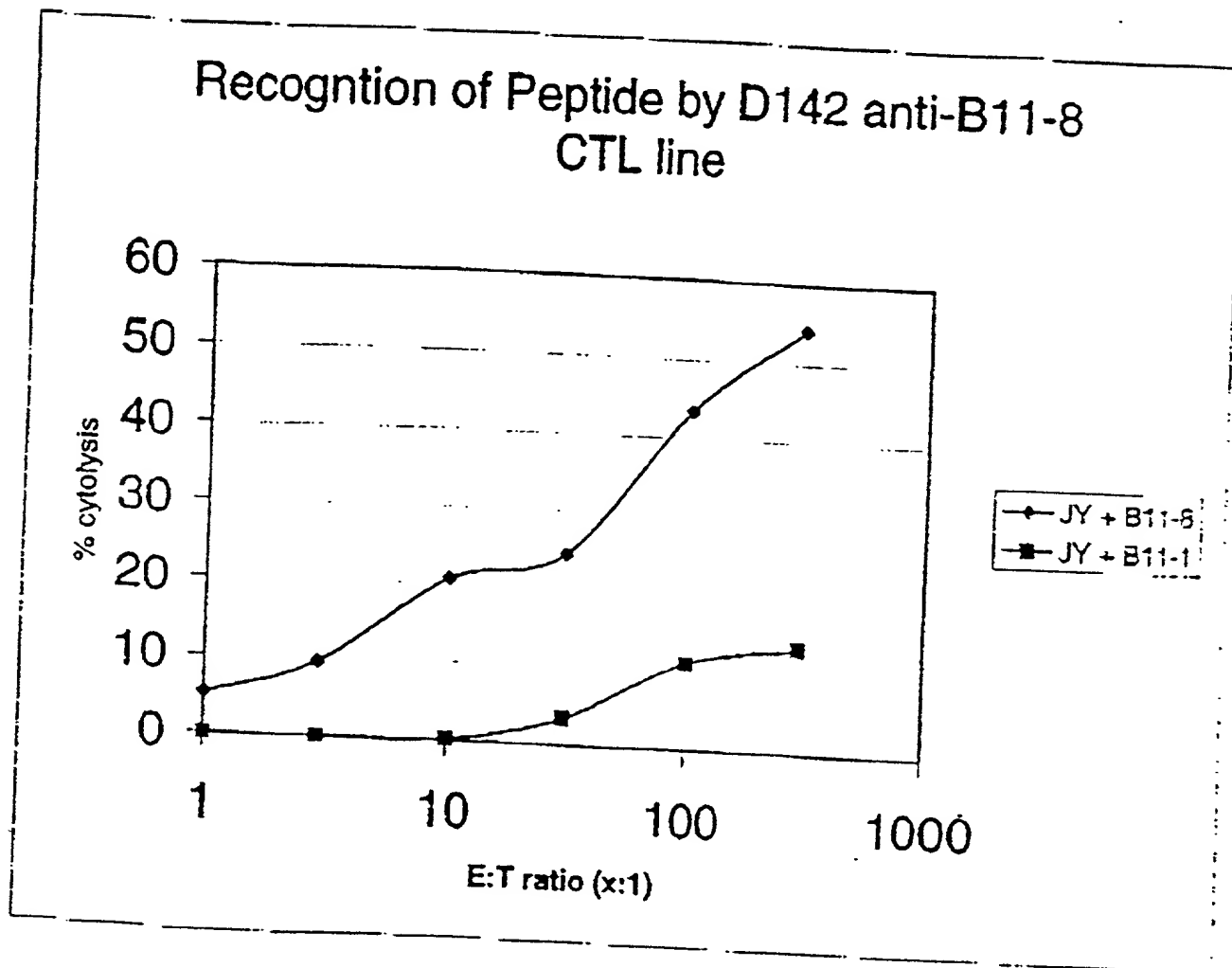
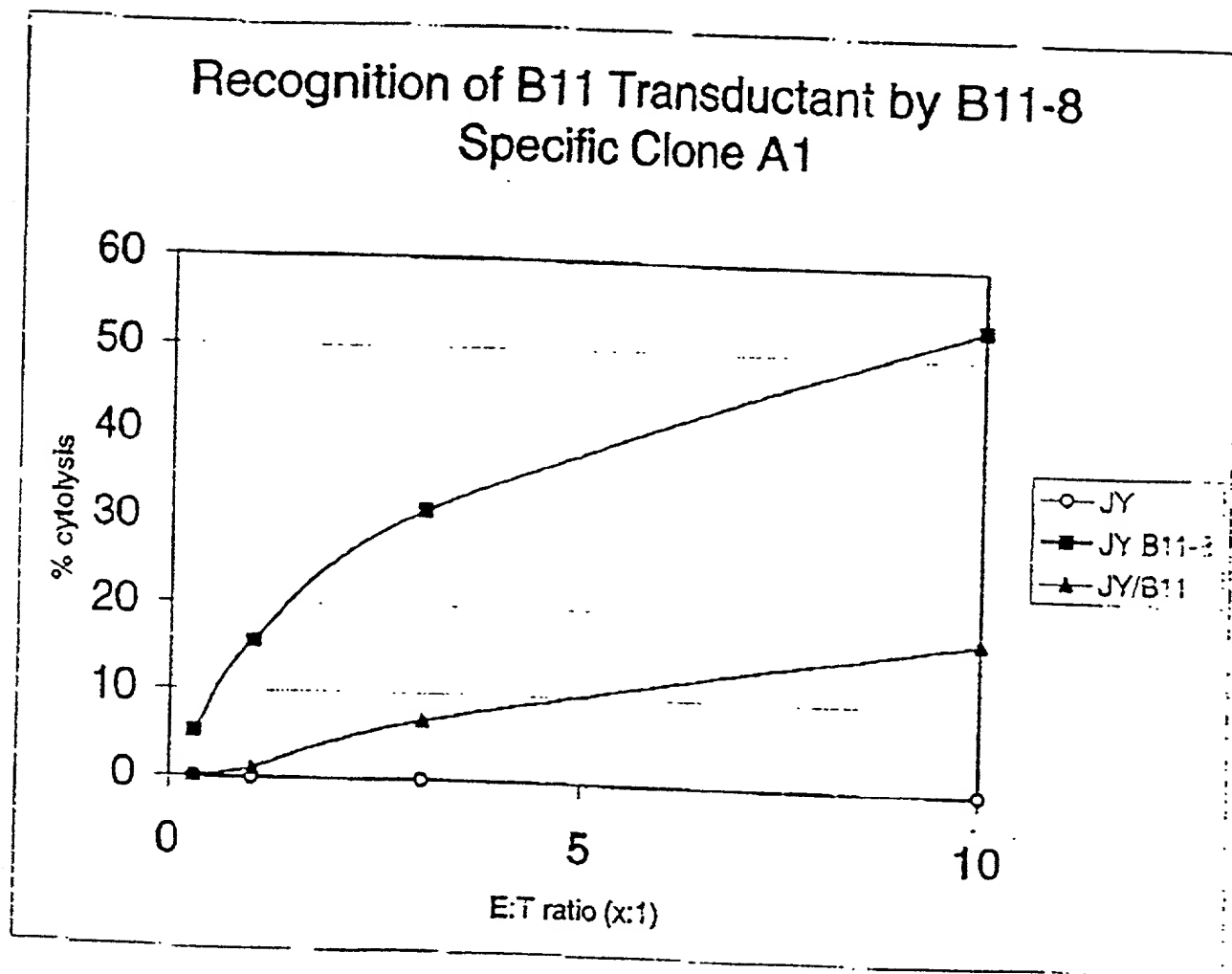


Fig. 21B

*Fig. 22*

*Fig. 23*

# Recognition of Tumor Cell Lines by Clone A1

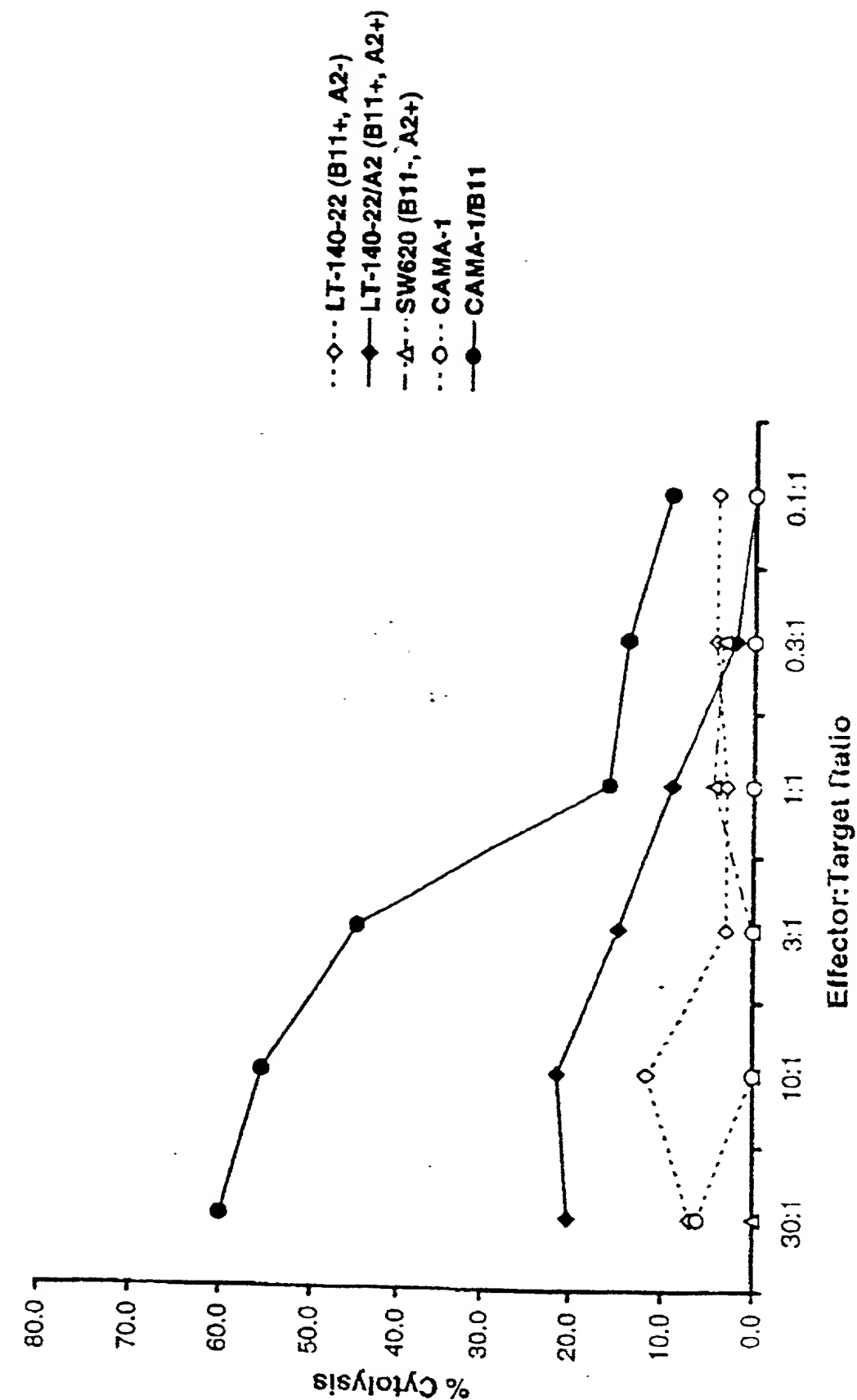


Fig. 24